



**SUBJECT: Buffer Switch Change, P/N 14435**

**MODEL AFFECTED: 71/92A**

Jacobs Vehicle Systems has made a change to Buffer Switch P/N 14435 for improvements to the switch's reliability and durability. There have been a number of failures seen in the field with commercial and military applications, causing Jacobs to investigate the nature and root cause of the switch failures. As a result of this study, two (2) changes have been made to the switch: (the revised switch is revision letter "J").

1. Internal plastic insulator pin has been changed from a "Delrin" material to "Rynite". The Rynite material will withstand temperatures up to 302 degrees F, (150 degrees C), improving the life of the pin by 5 X over the Delrin pin.
2. Internal return spring for the plunger has been changed to a spring with an increased load. The required load to fully depress the plunger is 4 lb., 14 oz. maximum, changed from 37 ounces maximum. The increased spring load will eliminate the possibility of failure near idle and reduce the effects of contact arcing through the entire range of the switch.

In addition, the revised Buffer Switch will be plated with **YELLOW chromate** to provide a visual indicator without the need for removal and/or inspection.

Switches are to be replaced with Rev. J switches on a fix-as-fails basis only.

INSTALLATION: (Reference should be made to the installation manual for illustration of the installation procedure).

1. Remove the existing Buffer Switch, (Pre Rev J), from the governor housing.
2. Remove the locknut from the buffer switch and install onto the new Buffer Switch, (Rev. J).
3. Install the Buffer Switch into the governor housing, about 1 turn.
4. Start engine and allow to warm up. Record the idle RPM and maximum NO load RPM.
5. With the idle speed set, adjust the buffer switch as follows:
  - a. Turn the buffer switch in until it contacts the connecting link as lightly as possible and eliminates engine roll.

**NOTE:**

**Engine idle speed with the buffer switch must not increase more than 15 RPM from the reading recorded in step 4.**

- b. Hold switch in this position and tighten locknut.
  - c. Check maximum no load speed. If the increase is more than 25 RPM from the reading recorded in step 4, back off buffer switch until increase is less than 25 RPM.
6. Connect wire leads to switch terminals.

**This is a Jacobs product improvement, and is not subject to campaign.**